## General gives Soviet version of interception



Fighting for artistic life in Moscow

## 


Headless corpse

Oil chief


Clued up


Boxer dies


Aquino crusade


##     Airliner＇wa mistaken for American spyplane’




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Ovett quick
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## Senior military commanders ＇took decision to open fire ${ }^{\text {＇}}$

 Murray asks Labour rivals




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## Syria warned against ambitions in Lebanon

Every day some 50，000 Multiple Sclerosis sufierers v：ake up in the hope that weill soon find cure for this cruel disease．

And every day，research brings that cure ever nearer．But at a cost．In 1982 we committed 2 milion to research So please
Sclerosis Society

Send it by cheque，gro．postal order，money order，cash or even credit card．

CLEROSIS

## Murray confident unions will survive 500,000 fall in membership



Computers bridge class divide


Lawson seeks public debate on spending


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## Ford strike talks today



## Anger as EEC blocks quieter lorries

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## More court help in appeal cases




British tanks 'flop'in Natocontest






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Micro guide

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Home Affiris Correspondent





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pening times: 12.00 to 19.00 hrs . ( 11 September) 10.00 to 17.00 hrs (14 13 September)
ntemational Cable \& Satellite Television Exhibition

## Schools criticized for 'poor advice' on university courses



Headless body of woman found

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Outcry over rapist's sentence


## 125 arrested in weekend of football violence



Malaria alert at Gatwick


 doctors are jointly investipaping
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might have been carrice inito Mr Paul Braddon's public hoose in
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## A second chance for drivers

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## Seven down for Dr Sykes

Why not get the team managing Heathrow's Terminal 4 project and British Sugar's latest complex to manage your next contract?

 probably the largest management contract currently underway in the UK.

By the time it is completed, more than 150 work packages valued between $£ 50,000$ and $£ 15 \mathrm{~m}$ will have been undertaken, at a total cost of around $£ 200 \mathrm{~m}$. But thanks to a lot of hard work, it's on its way. On time. And within budget. This jumbo-sized contract was awarded to Taylor Woodrow by the British Airports Authority who conceived and designed the new Terminal to meet passenger growth into the late 1980's.

Our ability to plan and sub-contract work on this scale is based on over 60 years of hardwon experience that has put us at the forefront of management contracting.

The recently completed packaging and storage complex for British Sugar is another



## Coach fares cut in rail-road price war

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A mixed blessing

Five policemen killed in Sind gun battle with demonstrators

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Cocaine case sentence







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 Aytollah's call.


## For bestresults start thetern Mrth ciso. Whether you're tarting at University, Secondary or even rimary School this Autumn, Casio has a requirements. And they all come eliability and value fo money that has made Casio a leading name in When you choose culator, count on Casio to offer you the and prices. <br>  <br> CASIÖMAGIC! <br>  <br>  <br> 

## Death of Aquino inspires opposition to launch Gandhi-style crusade

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 On


## Inconvenience





Strife in Southern Africa
Pretoria increases stakes in Angola＇s war

Chad rebel leader reappears and $\frac{\text { 娄 }}{}$ warns of showdown with French

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New 26th Issue National Savings Certificates give a high yield that is guaranteed and tax－free．

## A solid guarantee

We guarantee that for every $£ 100$ you invest you will receive back $£ 148.68$ at the end of 5 years． Over the full term this compounds to a high net interest rate of $84 \%$ p．a．，guaranteed not to change． You＇ll get the best return if you hold you Certificates for the full five years－but your money is not locked in．You can always cash them in earlier and once you have held them for a year or more，the interest rates are still attractive．

A tax－free investment
You don＇t pay a penny of income tax，invest－ ment income surcharge or capital gains tax on these Certificates．So anyone paying income tax at the basic rate of $30 \%$ would need a gross annual interest of $11.79 \%$ guaranteed for 5 years to enjoy the same benefit．And your Certificates don＇t even have to be declared on your tax form．

## How to buy

26th Issue Certificates are sold in $£ 25$ units and you can hold up to $£ 5,000$ in addition to any other issue．

Get full details from post offices and banks．

Clarinettist dispute in orchestra settled


Stormy Nigeria elections end on a quiet note






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## Korean jet crisis: lack of Soviet remorse dismays: mourners throw portraits into sea

## Russian refusal to accept guilt at UN proves   

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Families going to Seoul for funeral service


## IF ONY ASAT ONTHE BOARD WAS AS COWFORTABLE.



## SPECTRUM

In the 1960s robots were hailed as the answer to the problems of the industrial world. Today the experts are not so sure. In the first of three articles Piers Burnett explains why the march of the reliable cheap and accurate machine has been halted

## Spanner in the robot's

 worksDuring the nineteenth century, wh
the ue of mase armies became fashionaabe of power in demographic termse a falling binhtrate in one
generatioo would, it was argued, generation would it was argued,
condemn a nation to militiary impo
tence in the next. A single invention, the machine g
But the theme has recently surfaced
in a novel guise. This time the capacity measured is industrial rather than
military, and the yardstick applied is
not the number of young meo a couotry has availabbe for meo military
service, hut the size of its robot service, hut the size of its robo
workforce A recent publication by the
Organization for Economic Cooper attion aod Developonemt is cooper-
tatest of several surveys to adopt the criterion, and it is periaps no accident robot now seems a more potent
political gesture than kissing a baby By any standards, whether absoute
or relative, Britain is doing badly in the or relative, Britain is doing badly in the
robot race. In 1982 British ind
was ahile to muster a paltry 1.500 robots compared with some 13,000 in
Japan. This puts us roughly on a par
with Sweden with the difference that wheo the figure is related to the
number of workers employed Britain had one robot for every 10,000 workers
and the Swedes had 30 ( 1981 figures). Moreover, in the OECD's opinion,
matters are unlikely to improve. If experience is aoything to go by, it is the
hii robot makers (the US, lapan and
Sid

Bobots as yet another symp. worth pausing to try to
discover whether industry is sukely to be able to turn ao unlimited
supply of robots to
advantage collective advanage any better than the generals
of 191418 were able to extract the anticipated victories from the millions
of young men who were put at their
disposal. This iovolyes sont disposal. This iovolves some appreciit can, and, more importantly, cannot
do. and of the chaces. of robots
widening their repertoire of skills over widening their reperto
Conditioned by science fiction, with men, we all too easily leap to the "rohot", it must have a range of aproximate our own. ln fact, as
roboticists are well aware, antaching the
label of robot to the kinds label of robot to the kinds of
manipulatars that are curreotly in use
is an expression of premature optiis an expression of premature opti-
mism rather than a statement of real
accomplishment.

The contemporary industrial robot, may wear the phalo of high technology,

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解istic 2 market of the early 1960 s it became
 noteasant jobs. What was wanted was
not ane which could master
elaborate human skills but one which elaborate human skills, but one mhich
cutld provide the mindless /umpenproActariat demanded by mass production As Joseph Engleberger, the founder of
Unimation Inc. the pioneers of
industrial robotics. put it manufacturers have broken down Lhost
processes into small elements. Each operator has to learn ooe sequence of
operations, which he is then required oo perform over and over again. The
degree of skill is low and there is little
to learn". What had to be learnt, and proved well withio the robot's capacity; were
sequences of precise movement of the
arm and hand "end effector", in robotic parlance). "Such sefuector", in
relatively easily progerammed relamputer easily programmed into a
compury especially after the advent of the microprocessor freed
robots from their dependence oo the giant mainframe conputers of of the
1960. But however impressive, even uncanny, a robot may appear to the
layman as it repeats a series of movements with flawesss precision, it
is in fact operating bindly and by rote. Even roboticists can be taken in by
the illusion of intelligence. The story is told of a Japanese roboticist who
demonstrated his machine to a group
of British scientists. The audience were of British scientists. The audience were
electrified by the fact that the robot
was,
 prodigous feat Th The astic tenishment a a
short 1 ived. explaioed that, having, trained the
robot to toss the ball, he theo robot to toss the ball, he theo
positioned the wastepaper basket to
intercept it! Repetitive manipulation is, of
course. a skill commonon to many
machines' what differentiates the robot course. a skill common to many
machinesw what differentiates the robot
is that it makes use of an articulated arm analogous to the human limb and perform a whole variety of tasks
without the need to redesign or adjust its mechanical components. There are, catioos in which a manipulator arm,
operating hlindly and without intelligence. is usefy. Looking through
manufacturers' catalogues one is struck
not by the machines not by the machines' versatility, but by he monotonous repeition of a art of
litany of robot functions: machine tool
loading and unloading, spot welding, paading and unloading, spot welding,
painting and parts transfer being
the commonet Whatever its rask, a robot is
dependent for its effecciveness upon a
whole supporting cast of automated whole supporting cast of automated
machines. Everything must be pre-
sented to it in consistent positions and orientations; it can only operate in a
world of guaranteed predictability. world of guaranteed predictability.
Indeed, to consider robots in isolation.
from automation in general is rather

 environment has so far restricted robot use to large scale industry. businesses
such as specialist machine shops,
producing small batches of many producing small batches of many
different items, have little incentive to set up the paraphernalia of conveyors,
jigs and electronic communication The moresure









Those who leap to the conclusion
that the provisioo of more and more rat the provisioo of more and more
robots is auaranteed elixir of
industrial healtrin should also be aware nhat there is a a suould also be aware
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funiversal worker of the
fue robot is oo more than future, the robot is oo more than a
stop-gap expedient forced upon us by
the limitations of insufficient and inadequate antomation, Automation,
the argument goes, achieves its really
spectacular successe spectacuar successes when it abandons
the attempt to do things in ways based
on human skills and find solutions on human skills and find solutions that
are quite
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intrinsically are quite novel and intrinsically
mechanical Replacing wired circuits,
which are fiddy for virtually impossibile for machiness to assemhle, with printed circuits which
manchines can manufacture with ease is
an obvious example. The need for an obvious example. The need for
robots arises it is suggested only
because imperfect automation has left a number of gaps in the industriat
scheme of things which require the
particular skills of the robot - hand. But this is a t temporary
state of affairs which will be remedied
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## Summer's <br> over and not

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## MODERN TIMES


#### Abstract

6 A outside "the faminy could pick her up without sideways : goves Ass we minc in Yorkshire Uncle donned a look at the British way of life

Such poople hate rebeds and all her life Tinker mage of cruixidecr aluas fosstred by the pet food  loothles zuius wher he carie to pat hurd down at at least a ecrimpeig for rexid cois Not aif cats aire.af forthrizh and inonest in the Ooathing tey have for tuimmans ind mont in the   come nightay. Kitykeing or Pusywoo or mastia calls himion wint betect sruage name his embarked on a night off siand vionence whith would have made Caligua, Whach "O Hook 

Yet. hhe country is going to the cats despite such anitos Nine million lurk in five million homes and the number, hanks to the grinuing tomes is growing an the time. People buy curs in the does an can " sanid on oneir ows two feect". Mos Tats would find this very ymusing. There is itite reason where There is litite reason where artimudes to cats are  eoincidence that Chiurchiill and Roosesvet in int the ast war libed kiticis, while Hitler, Mussolini and  mabivalemat having had to o punch his way lhrough many a mogegy in Siberia Cat lovers fien cause The scoialist mayor of San Roque, the nearest annot bury the mansioo of Mrs Diana Bred he and turri it inio a student centru. When she died in May she leftit to her 24 cats and there is nothing  from keeping 30 cats on the novel grounds that beriousiy been warching too much Tom and Jrayly Or could it be heys The Rocrers in disguise? there is not a single mouse toathed cats and uckingham Palkec: but moustaft ane sew stairs at cats in the Royal Mews", a spokesperson tondon wod see the Queen and found the Dit to Ondon io see the Queen and found the Duke of Ti on the wall The only hope on phe bobizon is uuen Yicloria installed bent is dotty about them. Quten Vicioria installed a black por cat on une Froemore Mausoleum to kecp owis away from Prince Albert If you wart to stop the march of the cat tiger dung spread on the geraniums signifining the dung spread on the geraniums. signifying the beast st fratiory is is his sure way This trouble is you to put up with mogeg. Eveo Tinker Bell oever ate

Paul Pickering


## It's the cat's whiskers




## LADIES' MAN  


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C. Crisumas he comes lo visit my flat






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 Sweet potatoes






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## Secrets

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Going my way?









## Try again





Behind allegations



## The sage of the train

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 Sir Peter was flummoxed only once during the conversation
when he was asked. who was the
real Peter Paker? He's been
described as a great actor, oldscribed as a great actor, old-
inioned corporatist inspiraional leader. Wafling word-
mith, and raive romantic who was monified to find that not
everyone shared his view of the
railway as a family during the 1982 strikes.
He was furious at the suggesHe was furious at the sugges-
rion that te was an actor playing
role (he has not trod tre boards a role (he has not trod the boards
since he played Lear in New since he played Lear in New
York in 1950.). He certainiy did
not regard himself as a soft-cennot tregard himself as a soft-cen-
tred manager devoted to the old
ways. He had left the Labour ways. He had left the Labour
Party more than 10 years ago
because it never talked about efficiency and productivity.
How then would he like be obituarists to mark his passing?
I'c like to be remembered as a man who thought efficiency and
happiness were reconcilahle, as a man who noticed those he
depended on and worked with" The obituarists are likely to be
tougher than that Sir Peter is
writing his memoir bit writing his memoirs, but perthap
the last chapter has yet to be written. Parker-watchers see him
as natural SDP material. Maybe post-Thatcher Britain will pro-
vide a lestebed for his theories. Maybe they will and prove, after
all. to be more han a touching

Concorde: slowing, but the idea could still take off


## Ann Şofer

The bungling burglar and the TUC




## Colombia's own savage El Salvador











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## Venice, the first cultural ghetto




## 4very

P.O. Box 7,200 Gray's Inn Road, London WCIX 8EZ Refephone: 01-837. 1234

## BE FIRM, BE SCEPTICAL



INDIGESTIBLE SSLAM

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## Body and mind <br> 





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## Wages by cheqụe <br> 




## LETTERS TO THE EDITOR



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CIRCULAR





 Forthcoming

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| and Miss A. K. . Fron |








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Mrm. M.w. winlsmith

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## OBITUARY

MR JAMES LAING
Contribution to the treatment of burn injuries


MR LYNDESAY LANGWILL

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## Bringing Indian classical

music to the West

## Beastly baptism for

 the rookie Prince
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| Prince Edward faced a rude baptism <br> Edward, will be paid $£ 12.50$ a day, when be joined some of the roughest when be joined some of the toughest meluditag a | Mr Michael'Allen Nadel aged 32, o Thames Ditton. Surrey. a Loydrs 120 an memeer of syndi- |
| ${ }^{\text {a }}$ of arriving at ite Royal One officer who mderwent a | cate 123, an Alexander Howden syndicate once beaded by Mr |
| , | pended vider |
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| One ercepion.. | Chaton, Mr Arnold, of Indey West |
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|  | Simpos. Mr John Davis. |


 Kilbrittain Castles Kibbitain, Co. Cork



Science report
Satellite study of the ozone layer


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 Mr Vyakarnam Lakshminparty, classicial musis mase for Indian


## THE ARTS


Capitalization and week＇s change

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## THE WEEK AHEAD

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City Editor Anthony Hilton

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Brazil rescue 'must
involve state help'


|  | Other restitutions ourcide the remit of the MMF, remain in force. denied access :to prablic sectiot contracts: They also have io oveiseer and are forbidden 20 sell any local asset or property. tonstyanainst Ansenting tanc September and the governmint would like 20 see a resumption nf Whitehall officials say there has been no posinie responsa from Argentina. $\qquad$ <br>  try. the only exceptions are news mateitial and wosicommercial <br> month's portical dispute over British bank participarion in the Argentioe loan is believed to have stemmed directly -from intervention by Mrs Thatchers | expected 20 raise about $\mathbf{E 3 m}$. Tace and reduce its. stake' in Goring Kerr from 90 per cent 10 62.5 per cent. ${ }_{6} 62.5$ per cemi <br>  Richards Shops reinil chain froin Lord. Hanson's Hanson TrusL So of Burron Group. kas held out against paying the f100m doagainded by Hanson Lord Hanson has made it clear he wants the deal seruled by the group's financial year-end on September 30 and still has several other buyers waiting in the wings. the end of the week 20 complete - II M. Robert Marwel, chairrelevision. metrview that despite tharker ofubinne sin hiss company's contested f18m - bid for John Waddington; the games and pan Wednesday. |
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Whitehall launches $£ 500 \mathrm{~m}$ company

## Ministry man turns oil chief




## Britain'sgrowth rate maybe halved next year, City economists agree




## Profits continue to tumble at Sime

| fourth year in succession. <br> Full-year figures to June 30 <br> w pretax profits tumbling 47 <br> turnover reduced from <br> 2.727 m 10 $5 \mathrm{M} 2,172 \mathrm{~m}$. Sime <br> much of the blame for the <br> sst setback on its Tractors Holdings subsidiary <br> ch reported its firss trading <br> of SM10.9m agginst a pretax fit last time of $\$ \mathbf{M} 61.6 \mathrm{~m}$. <br> pparently the demand for <br> vices in the logeing industry <br> ed to materialize in the second <br> This was due 20 adverse <br> ressed demand for logs. | Oo the heavy equipment side sales were hit by a build-up of stocks which in turn hin margins and reduced operating proifis. The smaller businessman Malay sian has also been his by the recession, and as a resyllt Sime has experienced an unusually hieb build-mp of fepossession orders of new and second-hand equipment <br> Sime has now underaken a programme of heavy rationaliza- timn in the tractor division to reduce overtheads and workforce. <br> Rising costs and the fall in the price contribution from the plantations division. Pretax profits and <br>  The only bright spot was the natural rubber in the second haf |
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| Banks debate TKM aid |  |
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## City Editor's Comment

The key question at monetarism's heart The idea that the American
economy should act as a
reductios disaster. A sharp
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 dragging the rest of us intoo grominal GNP myowth next
forward motion, is anath- yearial Combined with the
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omic growth.
 As ever there are no half
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ineasures with Mr Fried$\begin{array}{lll}\text { masires with Mr Friedr } & \text { the downturn that should } \\ \text { meverse when things im- } \\ \text { maxcessive monetry }\end{array}$ growt over the past year
prove. Experience here here
means that we are facing
sugests near-certainty of an thause parchase ine in the early
the over-heated economy for stages of recovery simply the next few quarters at need more money.
least. which will almost certainly mean a sub- showed this tramsition was
sequent acceleration of in- hard to bridge. The denone-
 levels of of montion of present $\begin{aligned} & \text { timancial cycle or a longer- } \\ & \text { term economic recovery. }\end{aligned}$

## Fitch Lovell:

 a shorter menu meansa better recipe forsuccessIt won't have escaped your attention that one of the Because Fitch Lovell has disposed of its retail and poiltry interests - to emerge as a leaner, fitter company, strongly concentrated on is areas of greatest

The results are appetising to say the least
The results are appetising, to say the least
Because while overall Group profit rose in the 53 weeks to 30th April 1983 (compared with the previon 2 weeks) by $39 \%$, the profir generated by the businesses that have been retained did even better, sing by no less than 66\%.
Gre Group now contains some of the most efficient it also has the resources to selective and highly-disciplined programme of cquisition.
And it has a management team that's dedicated to established skills, innovative philosodhies a blend of stabished skill Bon appetu

## Fitch Lovell

To the Secretary, Fitch Lovell PLC, West Smithfield, London ECI 9LA lease send me a copy of your Annual Report.

## Why Good Relations decided a full quote was better



Unlisted Securities

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APPOINTMENTS
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## Shaw

## Results for year to April 291983

|  | $\begin{aligned} & 1983 \\ & 5000 \end{aligned}$ | $\begin{aligned} & 1982 \\ & \varepsilon 000 \end{aligned}$ |
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| Sales | s6,500 | 33,448 |
| Tracing proftu(loss) | 1,948 | $(1,314)$ |
|  | 748 <br> 288 | 788 158 |
| Pretax protiv(loss) | 962 | (2.260) |
| Eamings/(loss) per ahare Ordinary dividends per ahar | $\begin{aligned} & \text { 2.6p } \\ & \text { 1.5p } \end{aligned}$ |  |




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## AMERICAN

Fed keeps up tight money control
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## Kent's hopes flicker and die amid the gloom



Shattering the bucolic calm



Surrey's best just good enough


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Fluency on the way to



 John Player League

Yesterday's other scoreboards (cesqum
British repeat their double victory


Aoki wins European Open
from Faldo and Ballesteros
$\qquad$
"The Maestro will become a milestone and benchmark in British Motoring History:"
D. Benson, Daily Express 1.3.83
"Equipped to bea world beater." Financial Times Headline 31.1.83
"The Maestro is the most innovative 'everyday' car since the Mini 23 years ago." Michael Kemp, Daily Mail 1.3.83
."From the way in which the Maestro comfortably comes top in no less than four of our five areas of assessment it can be nothing but the clear overall winner."

What Car? June 1983
"Right through the car the engineering is excellent-often superb." Mel Nichols, Sunday Express Mag 27.2.83
"...There is no other car in this class I prefer to the Maestro...Itoffers style and driving satisfaction...the epitome of low-cost enjoyable 1983 transport"

Frederic Manby, Yorkshire Post 15.4.83
"Maestro a Winner. Success will save jobs"
Daily Star Headine 2.3.83
"Its a car of which Austin can be proud-just watch it sell!"
Drive Magazine April '83
${ }^{4}$ It outshines the competition in style, economy, roominess and price and outstrips the field in advanced technology."

Car Choice April '83
"It's a winner all the way and it's the best of British"
Daily. Express 1.3.83
"Magnificent"
The Sun 1.3.83
"The abiding impression received as one gets in a Maestro is of airy space... with adequate room for a 6 ft driver and for a similar size passenger behind him."

Autocar 28.5.83
"it's a joy to driven $\because \quad$ : $\because$ Patrick Mennem, Daily Mirror 1.3.83
"The Austin Maestro is aptly named It is a great composition of the latest advanced technology-and is going to play havoc with all its competitors. It beats them all on petrol economy, interior dimensions, equipment, innovative new features and price!"

Leslie Driver, Sheffield Star 1.3.83
"A combination of performance and economy that the opposition are hard pressed to beat..."

Motor 9.4.83

## THRRESONYONEWAY TOFNDOUTYALTRIE:

Test drive one of the 7 new Maestro models available now at your nearby Austin. Rover dealerand you'll believe in miracles.


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Rangers adjust to the elite with a contentious bounce



West Ham success due to excellent tradition

## Dalglish opens the curtain

| Liverpool．．．．．：．．．．．．．． Nottm Forest．．．．．． <br> The cariy echo of a C <br> the fringe of the an <br> followed was a tame <br> he cards and Notting <br> and painstakingly commte <br> spreading a fine mesh a <br> aceldepts－arid the specti <br> goals are usually scored <br> United earlier in the w <br> one sairent dumerence st <br> Usubside <br> in the second |
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##  <br>  <br> Rough ride for Victory＇83



## New heroes and heroines start chasing the old favourites



Germans claim six golds

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THE BRITISH ACADEMY
Research Awards $1983-84$


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## Diplomas that lead to a job

THE TIMES MONDAY SEPTEMBER 5.1983

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Today's television and radio programmes
Edited by Peter Lee

## Israeli convoys retreat south from the Chouf in Operation Millstone

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## Civil war engulfs mountains


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Heading sonth: An Israeli tank escorting an armoured column out of Sidon, its cannon trained on the Chonf

THE TIMES INFORMATION SERVICE

## Today's events

 Royal engagements ork Univerity, amives ala 1.15 am
 Sociely for Prostheics and ortho
 New exhibitions




 view, City Muscum and Art Gullery,
Muscum Road. Porsmountren Mon
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New London exhibition Paintings and drawioss by
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